CLAIM AMENDMENTS

1. (Currently Amended) A multi-function <u>integrated</u> semiconductor <u>module</u> <u>device</u> comprising:

an image sensor including a plurality of light sensitive pixels for capturing an image in still and full-motion digital imaging;

an <u>a real-time</u> image processing circuit, responsive to the light sensitive pixels, having as an output a digital representation of the image captured;

a digital processing unit;

an automatic identification circuit, responsive to a captured image, to identify information coded in the image;

a secure personal database secure to all but a specified user;

means for inputting a biometric attribute;

means for providing a wireless communication including an antenna, a transmitter, a receiver, a wireless communication protocol and an Internet browser;

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a central processing unit; and

memory containing a first biometric attribute and software for executing a predetermined application.

2. (Original) The device of claim 1 wherein the means for inputting the biometric attribute further comprises means for comparing said inputted biometric attribute to the first biometric attribute and permitting access to the secure personal database in response to the input biometric attribute matching the first biometric attribute.

DOCSNY1:1090577.7 11104-2 RS7 3. (Currently Amended) The device of claim 1 further comprising a lens disposed to project an image on said image sensor pixels, and an input/output means for transmitting the digital representation of a captured image to a remote device, wherein the control digital processing unit is coupled to the integrated with a first memory and the image processing circuit and stores interrogates the captured image in real-time in said memory.

4. (Currently Amended) The device of claim 1 further comprising a supplemental memory, a lens disposed to project an image on said image sensor pixels, and an input/output means for transmitting the digital representation of a captured image to a remote device, wherein the control digital processing unit is coupled to the integrated with the memory, the supplemental memory, and the image processing circuit and stores the captured digital representation image in one of the memory and the supplemental memory.

5. (Currently Amended) The device of claim 3, further comprising:

an interface for a voice/data communications channel to a networked computer server, said communications channel comprising at least one of the group consisting of a cellular telephone network, a satellite telephone network, a wide-area network, a local-area network, and the Internet browser;

means for <u>real-time</u> scanning, decoding, and transmitting via the interface, information encoded in an automatic identification indicia, said indicia being selected from among the group consisting of bar codes, matrix codes, Optical Character Recognition (OCR), and Radio Frequency Identification Tags (RFID);

wherein the image processing circuit further comprises means for capturing single and sequential digital images, and wherein the <u>central digital</u> processing unit comprises means for

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transmitting said images <u>including data element identifiers</u> via the interface over the communication communications channel to a remote location;

wherein the personal database comprises personal identification and credit card/debit card account information; and

a <u>digital</u> processor operable to transmit queries, receive textual and graphic responses, execute secure purchase of goods or services, and remotely store records related to electronic commerce transactions, and to execute the secure purchase of non-electronic commerce goods and services.

- 6. (Currently Amended) The device of claim 5 wherein the <u>digital</u> processor further comprises means for generating and transmitting a digital security code based on an input biometric attribute <u>and incorporating data element identifiers</u>.
- 7. (Currently Amended) The device of claim 5 wherein the <u>digital</u> processor further comprises means for activating a large scale processing application on a remote server.
- 8. (Currently Amended) The device of claim 5 wherein the <u>digital</u> processor further comprises means for securely executing personal financial transactions.
- 9. (Currently Amended) A communications node comprising means for receiving a transmission containing a biometric attribute data <u>digital template</u> associated with a remote user, said <u>digital template</u> comprising biometric attribute derived from an original <u>digital image</u>, and means for identifying said user in response to said required biometric attribute <u>digital template</u>.

DOCSNY1:1090577.7 11104-2 RS7 10. (Currently Amended) The communications node of claim 9 further comprising a database comprising a plurality of securely stored biometric attributes data templates

corresponding to a second plurality of users.

11. (Currently Amended) The communications node of claim 9 further comprising

means for verifying the identity and authenticity of the user associated with a received biometric

attribute template, wherein the transmission is associated with said user conducting a financial

transaction and said transmission includes user credit or debit account information.

12. (Currently Amended) The communications node of claim 9 wherein the

transmission includes data corresponding to a digital image template, further comprising means

for storing the received digital template data corresponding to the original digital image.

13. (Currently Amended) The communications node of claim 12, further comprising

means for downloading to a plurality of remote display devices, said stored digital template data

corresponding to a digital image, said remote display devices being selected from among the

group consisting of portable wireless communication devices, personal computers, and cable

connected television sets.

14. (Currently Amended) A wireless communications system comprising:

a multi-function integrated semiconductor device comprising:

an image sensor including a plurality of light sensitive pixels for capturing an image in

still and full-motion digital imaging;

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an a real-time image processing circuit, responsive to the light sensitive pixels, having as an output a digital representation of the image captured;

a digital processing unit;

an automatic identification circuit, responsive to a captured image, to identify in real-time information coded in the image;

a secure personal database;

means for inputting a biometric attribute;

means for providing a wireless communication including an antenna, a transmitter, a receiver, a wireless communication protocol and an Internet browser;

a central processing unit;

a memory containing a first biometric attribute and software for executing a predetermined application; and

a supplemental memory, a lens disposed to project an image on said image sensor pixels, and an input/output means for transmitting the digital representation of a captured image to a remote device, wherein the control digital processing unit is coupled to integrated with the second memory, the supplemental memory, and the <u>real-time</u> image processing circuit and stores the captured image in one of the memory and the supplemental memory; and

a communication node capable of receiving digital images transmitted via said module, said communications communication node being remote from said module.

15. (Currently Amended) A portable wireless communications device comprising a multi-function integrated semiconductor device having integrated therein a secure personal database secure to all but a specified user, a sensor responsive to a biometric attribute, and a processor responsive to said biometric sensor and said secure personal database for verifying a

sensed biometric attribute sent by said biometric attribute sensor, and granting access to said secure personal database on biometric verification.

- 16. (Currently Amended) The device of claim 15 further comprising means for transmitting to a remote location a copy of said biometric attribute in response to a failure to verify said biometric data attribute.
 - 17. (Currently Amended) A method of transacting commerce comprising:

 providing a portable two-way communication device incorporating a multi-function

entering a product description including a price into said device;
accessing a remote database by a wireless communication channel;
searching said remote database for data including prices corresponding to said product;
comparing said pricing in said remote database and said stored product description;
selecting a product to be purchased; and

initiating a wireless transmission of personal financial data via a secure data transmission including a biometric attribute to make the purchase.

18. (Original) The method of claim 17 further comprising a completing the financial transaction and receiving a transaction record number, and storing the transaction number in the portable two-way communication device.

integrated semiconductor device;

19. (Original) The method of claim 17 wherein entering a product description further comprises wirelessly sensing data corresponding to a product identification code and automatically identifying a product description therefrom.

20. (Currently Amended) The method of claim 19 wherein wirelessly sensing data further comprises optically scanning in an image <u>in real-time</u>.

21. (Original) The method of claim 17 wherein selecting a product to be purchased further comprises selecting one of the entered product description or a product description from said remote database.

22. (Currently Amended) A method of transacting commerce comprising: employing a portable two-way communication device <u>incorporating a multi-function integrated semiconductor device</u> storing personal financial data in said device; entering one of a biometric attribute and a personal identification code ("PIN") into said communication device, authenticating a user based on the entered one of the biometric attribute and PIN and, in response to authenticating the user, transmitting personal financial data <u>incorporating data element identifiers</u> to complete the transaction without surrendering physical custody the device containing the personal financial data.